



18 GAUGE 2-IN-1 NAILER/STAPLER

Model 97524

SET UP AND OPERATING INSTRUCTIONS



Visit our website at: <http://www.harborfreight.com>



Read and understand tool labels and manual. Failure to follow warnings could result in DEATH or SERIOUS INJURY. SAVE THIS MANUAL.

Copyright© 2007 by Harbor Freight Tools®. All rights reserved. No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

For technical questions or replacement parts, please call 1-800-444-3353.

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

Safety Alert Symbol and Signal Words

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.







NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

Symbol Definitions

Symbol	Property or statement
PSI	Pounds per square inch of pressure
CFM	Cubic Feet per Minute flow
SCFM	Cubic Feet per Minute flow at standard conditions
NPT	National pipe thread, tapered
NPS	National pipe thread, straight
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.
	Warning marking concerning Risk of Puncture Injury. Wear heavy-duty work gloves.
	Read the manual before set-up and/or use.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator.
	WARNING marking concerning Risk of Explosion.

IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

WARNING – When using tools, basic precautions should always be followed, including the following:

General

- a. **To reduce the risks of electric shock, fire, and injury to persons, read all the instructions before using the tool.**




Work area

- a. **Keep the work area clean and well lighted.** Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.
- b. **Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** The tool is able to create sparks resulting in the ignition of the dust or fumes.
- c. **Keep bystanders, children, and visitors away while operating the tool.** Distractions are able to result in the loss of control of the tool.

Personal safety

- a. **Stay alert. Watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol, or**

medication. A moment of inattention while operating the tool increases the risk of injury to persons.

- b. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair increases the risk of injury to persons as a result of being caught in moving parts.
- c. **Avoid unintentional starting. Be sure the trigger is released before connecting to the air supply.** Do not carry the tool with your finger on the trigger or connect the tool to the air supply with the trigger pressed.
- d. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- e.  **Use safety equipment.** A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions. Wear heavy-duty work gloves during use.
- f.  **Always wear eye protection.** Wear ANSI-approved safety goggles with side shields.
- g.  **Always wear hearing protection when using the tool.** Prolonged exposure to high intensity noise is able to cause hearing loss.
- h. **Do not attach the hose or tool to your body.** Attach the hose to the structure to reduce the risk of loss of balance if the hose shifts.

- i. **Always assume that the tool contains fasteners.** Do not point the tool toward yourself or anyone whether it contains fasteners or not.
- j. **WARNING – Do not fire fastener on top of another fastener.** This is able to cause the fastener to be deflected and hit someone, or cause the tool to react and result in a risk of injury to persons.
- k. **WARNING – Remove finger from the trigger when not driving fasteners.** Never carry the tool with finger on trigger, the tool is able to fire a fastener.

Tool use and care

- a. **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against the body is unstable and can lead to loss of control.
- b. **Do not force the tool.** Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which the tool is designed.
- c. **Do not use the tool if the trigger does not turn the tool on or off.** Any tool that cannot be controlled with the trigger is dangerous and must not be used until repaired.
- d. **Disconnect the tool from the air source before making adjustments, doing tool maintenance, clearing jams, touching the safety nosepiece, leaving work area, loading, or unloading the tool.** Such

precautionary measures reduce the risk of injury to persons.


- e. **Store the tool when it is idle out of reach of children and other untrained persons.** A tool is dangerous in the hands of untrained users.
- f. **Maintain the tool with care.** A properly maintained tool reduces the risk of binding and is easier to control.
- g. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.
- h. **Use only accessories that are identified by the manufacturer for the specific tool model.** Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.
- i. **Use only those fasteners listed in the Specifications chart of this manual.** Fasteners not identified for use with this tool by the tool manufacturer are able to result in a risk of injury to persons or tool damage when used in this tool.

Service

- a. **Tool service must be performed only by qualified repair personnel.**
- b. **When servicing a tool, use only genuine replacement parts available at Harbor Freight Tools.**

- c. **Use only the lubricants supplied with the tool or specified by the manufacturer.**

Air source

- a.  **Never connect to an air source that is capable of exceeding 90 PSI.** Over pressurizing the tool may cause bursting, abnormal operation, breakage of the tool or serious injury to persons. Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on the tool. Always verify prior to using the tool that the air source has been adjusted to the rated air pressure or within the rated air-pressure range.
- b. ***Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the tool.*** Such gases are capable of explosion and serious injury to persons.



SAVE THESE INSTRUCTIONS.

SPECIFIC SAFETY INSTRUCTIONS

1. **Operators and others in work area MUST wear ANSI-approved safety goggles with side shields during use.** The employer is responsible to enforce the use of eye protection by the operator and others in the work area.
2. **Keep fingers away from trigger when not driving fasteners to avoid accidental firing.**
3. **Choice of triggering method is important. Check manual for triggering options.**
4. Always assume the tool contains fasteners.
5. Do not point the tool toward yourself or anyone whether it contains fasteners or not.
6. Do not actuate the tool unless the tool is placed firmly against the workpiece.
7. Respect the tool as a working implement.
8. No horseplay. This tool is not a toy and can be deadly if misused.
9. Do not load the tool with fasteners when any one of the operating controls, such as the Trigger or Safety Nosepiece, is activated.
10. Do not remove, tamper with, or otherwise cause the tool's safety devices to become inoperable.
11. Do not operate the tool if any portion of the tool operating controls or safety devices is inoperable, disconnected, altered, or not working properly.
12. Disconnect the tool from the air supply when:
 - a. Unattended.
 - b. Performing any maintenance or repair.
 - c. Clearing a jam.
 - d. Moving the tool to a new location.
13. Do not make any modifications to this tool.

14. Refer to the tool maintenance instructions for detailed information on the proper maintenance of tool.
15. Fire fasteners into an appropriate work surface only. Do not attempt to fire fasteners into surfaces too hard to penetrate. Do not drive fasteners on top of other fasteners, or at too steep of an angle. Fasteners can ricochet causing personal injury.
16. Do not fire fasteners too close to the edge of a workpiece. They may split the workpiece and fly free, causing personal injury.
17. Keep clear of workpiece near area being fastened. Fasteners may bend sideways during firing, causing them to exit workpiece at an unexpected point, causing personal injury.
18. Transport Tool safely. Always disconnect air supply when moving the tool. Carry the tool by the handle and avoid contact with the trigger.
19. Hold tool away from head and body. During operation the Tool may kick back causing injury.
20. Do not fire fasteners into a workpiece that has people, utility lines, or other objects behind or inside it.
21. Keep balance while using this tool. Keep area below clear if working in an elevated location, and secure air hose to prevent falls from bystanders accidentally pulling on it.
22. Obey the manual for the air compressor used to power this tool.
23. Install an in-line shutoff valve to allow immediate control over air supply in an emergency, even if a hose is ruptured.
24. Do not engrave or stamp anything into the housing to prevent weakening of the housing.
25. **WARNING:** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paints
 - Crystalline silica from bricks and cement or other masonry products
 - Arsenic and chromium from chemically treated lumberYour risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, *et seq.*)
26. **WARNING:** The brass components of this product contain lead, a chemical known to the State of California to cause birth defects (or other reproductive harm). (California Health & Safety code § 25249.5, *et seq.*)
27. The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this

product, but must be supplied by the operator.

7. To reduce vibration, maintain tool as explained in this manual. If abnormal vibration occurs, stop immediately.

Vibration Precautions

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice between different processes.
5. Include vibration-free periods each day of work.
6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.



**SAVE THESE
INSTRUCTIONS.**

SPECIFICATIONS

Operating Air Pressure	60 - 90 PSI Maximum
Air Inlet	1/4" -18 NPT
Air Consumption	4-6 SCFM
Brad Nail Sizes	18 Gauge, 1/2" – 2" Long
Staple Sizes	1/4" Crown, 18 Gauge, 3/4" - 1-1/2" Long
Magazine Capacity	100 Nails / 80 Staples
Safety	Single Sequential
Lubrication	Air Tool Oil
Accessories	Oil Dropper 2 Wrenches 1 Coupler Plug

Safety (52) - Also called the workpiece contact, the Safety Nosepiece helps prevent the tool from firing unless it is pressed against an object.

INITIAL TOOL SET UP/ ASSEMBLY



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Unpacking

When unpacking, make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

- This air tool may be shipped with a protective plug covering the air inlet. Remove this plug before set up.

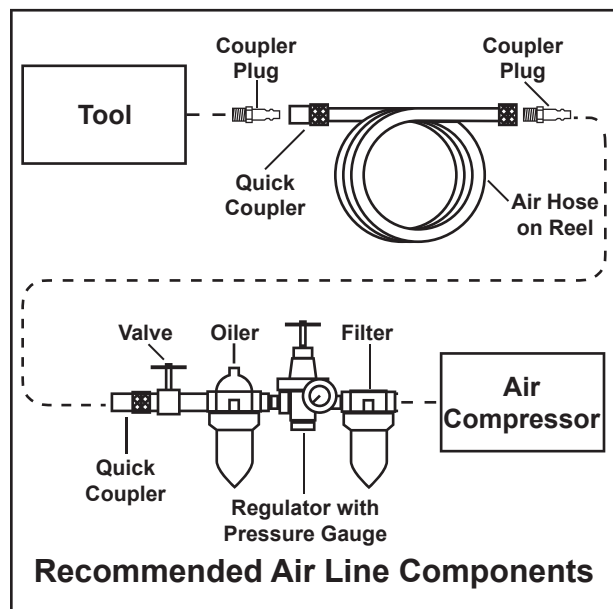
Air Supply

⚠ WARNING

TO PREVENT EXPLOSION:



Use only clean, dry, regulated, compressed air to power this tool. Do not use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.



- Incorporate a filter, regulator with pressure gauge, oiler, in-line shutoff valve, and quick coupler for best service, as shown in the diagram above. **An in-line shutoff ball valve is an important safety device because it controls the air supply even if the air hose is ruptured. The shutoff valve should be a ball valve because it can be closed quickly.**

Note: If an automatic oiler system is not used, add a few drops of Pneumatic Tool Oil into the airline connection before operation. Add a few more drops after each hour of continual use.

2. Attach an air hose to the compressor's air outlet. Connect the air hose to the air inlet of the tool. Other components, such as a coupler plug and quick coupler, will make operation more efficient, but are not required.

⚠ WARNING! TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Do not install a female quick coupler on the tool. Such a coupler contains an air valve that will allow the air tool to retain pressure and operate accidentally after the air supply is disconnected.

Note: Air flow, and therefore tool performance, can be hindered by undersized air supply components.

3. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.
4. Release the tool's trigger.
5. Close the in-line safety valve between the compressor and the tool.
6. Turn on the air compressor according to the manufacturer's directions and allow it to build up pressure until it cycles off.
7. Adjust the air compressor's output regulator so that the air output is enough to properly power the tool, but the output will not exceed the

tool's maximum air pressure at any time. Adjust the pressure gradually, while checking the air output gauge to set the right pressure range.

8. The air pressure setting must not exceed job site regulations/restrictions. The air pressure setting must not exceed 90 PSI when being used with work pieces that have a thickness of less than 1-3/4".
9. Inspect the air connections and the tool for leaks. Repair any leaks found.
10. If the tool will not be used at this time, turn off and detach the air supply, safely discharge any residual air pressure, and release the trigger to prevent accidental operation. As added safety, the Magazine should also be emptied of any fasteners.

Note: Residual air pressure should not be present after the tool is disconnected from the air supply. However, it is a good safety measure to attempt to discharge the tool in a safe fashion after disconnecting to ensure that the tool is disconnected and unpowered.

OPERATING INSTRUCTIONS



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Inspect tool before use, looking for damaged, loose, and missing parts. If any problems are found, do not use tool until repaired.

Work Piece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the air hose along a safe route to reach the work area without creating a tripping hazard or exposing the air hose to possible damage. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.
3. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be hazardous objects (such as utility lines or foreign objects) nearby that will present a hazard while working.

Single Sequential Safety Trip Mechanism Definition

This tool has a single sequential safety trip mechanism, which is designed to prevent inadvertent firing. The tool should only fire if the Safety Nosepiece

is pressed against the workpiece prior to pulling the Trigger. It should only fire again if the trigger is released first. The Tool should not fire if the Safety Nosepiece is not pressed against the workpiece.

Single Sequential Safety Trip Mechanism Testing Procedure



WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Empty the tool before this procedure. Point the tool at a piece of scrap wood when testing.

1. Disconnect the tool from the air supply.
2. Empty the magazine of fasteners.
3. Check that the Trigger (39) and the Safety (52) move freely, without sticking.
4. Connect the air supply to the tool and set within the Operating Air Pressure indicated on the Specification chart.
5. Test the tool by pressing the Safety Nosepiece against the workpiece without pulling the Trigger. **The tool must not cycle (fire).** If it cycles (fires), stop immediately and take the tool to a qualified service technician for repair.
6. Hold the tool away, or off of the workpiece. The Safety Nosepiece should return to its original position. Squeeze the Trigger. **The tool must not cycle (fire).** If it cycles (fires), stop immediately and take the tool to a qualified service technician.

7. Press the Safety Nosepiece against the workpiece and squeeze the Trigger. **The tool must cycle (fire) only once.** Release the trigger and squeeze it again. **The tool must cycle (fire) again only once.** With the Trigger held, carefully lift the tool and press it against the workpiece again. **The tool must not cycle (fire).** If it fails to act in the manner explained in bold, have it repaired by a qualified service technician.

Loading the Tool

⚠ WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION, BEFORE LOADING:



- **Wear ANSI-approved safety goggles with side shields.** Other people in the work area must also wear ANSI-approved impact safety goggles with side shields.
 - **Release the trigger.**
 - **Detach the air supply.**
 - **Attempt to fire the Tool into a piece of scrap wood to ensure that it is disconnected and is incapable of firing any fasteners.**
1. Depress the Latch (73) and pull back on the Magazine Tail Cover (78), opening Magazine A (67A).
 2. Insert the brad nails into Magazine A. If loading staples, fit the crown of the staples so they fit over, and ride on the rail of the Magazine.
 3. After the nails or staples reach the nose of the tool, close Magazine A .
1. Test the Tool, as directed in the prior section, before each use.
 2. If an automatic oiler is not used, add a few drops of Pneumatic Tool Oil to the air intake of the tool before use. Add a few drops more after each hour of continual use.
 3. Attach the Nailer/Stapler to the air supply at the Air Plug (86). Start your compressor and check the pressure, making sure it is set at the recommended 60-90 PSI.
 4. To fire, place the nose of the Nailer/Stapler on the workpiece. The Nailer/Stapler should not fire if the Safety is not depressed. Once depressed, gently and briefly squeeze the Trigger once. **Do not fire repeatedly;** nails or staples could bounce off of one another, damaging the work piece or causing PERSONAL INJURY.
 5. If the tool requires more force to accomplish the task, verify that the tool receives sufficient, unobstructed airflow (CFM) and pressure (PSI). **CAUTION! TO PREVENT TOOL AND ACCESSORY FAILURE, RESULTING IN INJURY: Do not exceed the tool's maximum air pressure rating.** If the tool still does not have sufficient force at maximum pressure and sufficient airflow, a larger tool would then be required.
 6. To prevent accidents, release the trigger, detach the air supply, safely

Note: The window gauge on Magazine A lets you know how many nails or staples remain.

General Operating Instructions

discharge any residual air pressure in the tool, and release the trigger after use. Clean external surfaces with clean, dry cloth. Then store the tool indoors out of children's reach.

Clearing Jams

⚠ WARNING

**TO PREVENT
SERIOUS INJURY**

**FROM ACCIDENTAL
OPERATION, BEFORE ANY
MAINTENANCE OR REPAIRS
ARE DONE (including clearing
jams):**



- **Wear ANSI-approved safety goggles with side shields.** Other people in the work area must also wear ANSI-approved impact safety goggles with side shields.
- **Release the trigger.**
- **Detach the air supply.**
- **Attempt to fire the Tool into a piece of scrap wood to ensure that it is disconnected and is incapable of firing any fasteners.**
- **Empty the magazine and leave it open during service.**

1. Disconnect tool from air hose, empty Magazine A of fasteners, release any built-up air pressure, and leave the magazine open, as explained above.
2. While doing this step and the next 2 steps, hold the Nailer/Stapler pointed away from you and any other people or fragile objects.

3. Remove all three Safety Cover Bolts (53) on the Safety Cover (54) - see *Figure 1*.

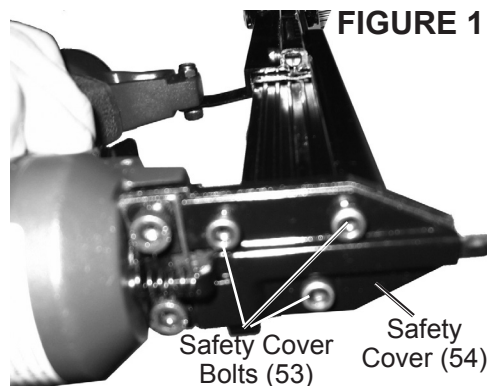


FIGURE 1

3. Lift the Safety Cover off the top of the Nailer/Stapler - see *Figure 2*.

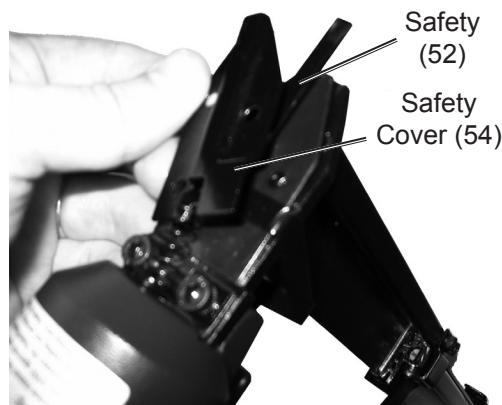


FIGURE 2

4. Carefully slide the Driver Cover (57) off and around the Safety. Note the position of the tab on the Driver Cover. Remove the jammed fastener; pliers may be necessary to remove a stuck fastener.
5. Inspect the Driver (17A) for bends or breakage. If it is damaged, do not use the tool until it is repaired by a qualified technician.
6. Lightly oil the Driver (17A) and replace the Driver Cover (57) with the tab in the Cover facing the Driver Guide

(58). Replace the Safety Cover, being careful to line up the bolt holes and fit the Safety into the slot. Replace and securely tighten all of the Safety Cover Bolts (53). Make sure that the Safety moves without sticking.

7. Reload the Nailer/Stapler.
8. Reconnect the Nailer/Stapler to the air hose.
9. Press the Safety of the Nailer/Stapler against an appropriate piece of scrap wood.
10. Test fire the Nailer/Stapler several times, checking for proper operation.
11. Disconnect the Nailer/Stapler, remove the fasteners, and store the Nailer/Stapler in a location out of children's reach.
12. If you are unable to clear the fastener jam using the method prescribed above, the tool should be taken to a qualified service technician for proper servicing.

USER-MAINTENANCE INSTRUCTIONS



Procedures not specifically explained in this manual must be performed only by a qualified technician.

WARNING

TO PREVENT SERIOUS INJURY

**FROM ACCIDENTAL
OPERATION, BEFORE ANY
MAINTENANCE OR REPAIRS
ARE DONE (including clearing
jams):**



- **Wear ANSI-approved safety goggles with side shields.** Other people in the work area must also wear ANSI-approved impact safety goggles with side shields.
- **Release the trigger.**
- **Detach the air supply.**
- **Attempt to fire the Tool into a piece of scrap wood to ensure that it is disconnected and is incapable of firing any fasteners.**
- **Empty the magazine and leave it open during service. The Magazine is spring-loaded and may cause parts or a fastener to fly out of the Tool.**

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment. If abnormal noise, vibration, or leaking air is detected, have the problem corrected before further use.



TO PREVENT EXPLOSION:

Lubricate only with specified lubricants. Lubricate the air inlet using only pneumatic tool oil. Lubricate the internal mechanism using only white lithium grease. Other lubricants may damage the mechanism and may be highly flammable, causing an explosion.

Cleaning, Maintenance, and Lubrication

Note: These procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the air-operated tool.

1. **Daily - Air Supply Maintenance:**
Every day, perform maintenance on the air supply according to the component manufacturers' instructions. The lubricator's oil level needs to be maintained and the moisture filter must be regularly drained. Performing routine maintenance on the air supply will allow the tool to operate more safely and will also reduce wear on the tool.

Troubleshooting

Stop using Nailer/Stapler immediately if any of the following problems occur.

Repairs and part replacements must be done only by a qualified technician.

All procedures in bold are to be attempted only by a qualified technician.

Problem	Possible Causes	Likely Solutions
Air leaking at Trigger area.	O-Rings (98, 99) are damaged.	Replace O-Rings and check contact trip operation.
Air leaking between Housing and Nose.	1. Loose screws in Housing. 2. Damaged O-Rings (91, 93) or Bumper (94).	1. Tighten screws. 2. Replace O-Rings or Bumper.
Air leaking between Housing and Cap (4).	1. Loose screws. 2. Damaged Gasket (9).	1. Tighten Screws. 2. Replace Gasket (9).
Has power loss.	1. Insufficient oil. 2. Broken Spring in Head Cap (4). 3. Exhaust is blocked. 4. Insufficient Air Supply	1. Lubricate as instructed. 2. Replace Compression Spring (8). 3. Clean Cap (4) or replace damaged parts. 4. Check for max. 90 PSI.
Tool skips a nail.	1. Worn Bumper (94) or damaged Pusher Spring (66). 2. Dirt in Driver Guide (58). 3. Inadequate airflow to Nailer/Stapler. 4. Worn or dry O-Ring on Piston. 5. Damaged O-Ring on Trigger Valve. 6. Cap Gasket (9) leaking.	1. Replace Bumper or Pusher Spring. 2. Clean channels in Driver Guide (58). 3. Check hose and compressor fittings. Make adjustments per specifications. 4. Replace O-Rings. 5. Replace O-Rings (98, 99). 6. Replace Gasket (9) and/or Seal (95).
Fasteners are jammed.	1. Guide on driver is worn. 2. Fasteners are wrong size or damaged. 3. Magazine or Nose screws are loose. 4. Driver (17A) is damaged.	1. Replace Guide. 2. Use correct, undamaged Fasteners. 3. Tighten screws. 4. Replace Driver (17A).
Nailer/Stapler will not drive down tight.	1. Rounded Driver (17A) slipping off fastener crown. 2. Lack of air pressure. 3. Slow cycling and loss of power.	1. Replace Driver (17A). 2. Supply correct pressure (60-90 PSI). 3. Check Compression Spring (8) for broken coils or reduced length. Make sure Exhaust is clear.
Fastener driven too deeply.	Worn Bumper (94) and/or Piston Spacer.	Replace either or both parts.



**Follow all safety precautions whenever diagnosing or servicing the tool.
Disconnect air supply before service.**

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST

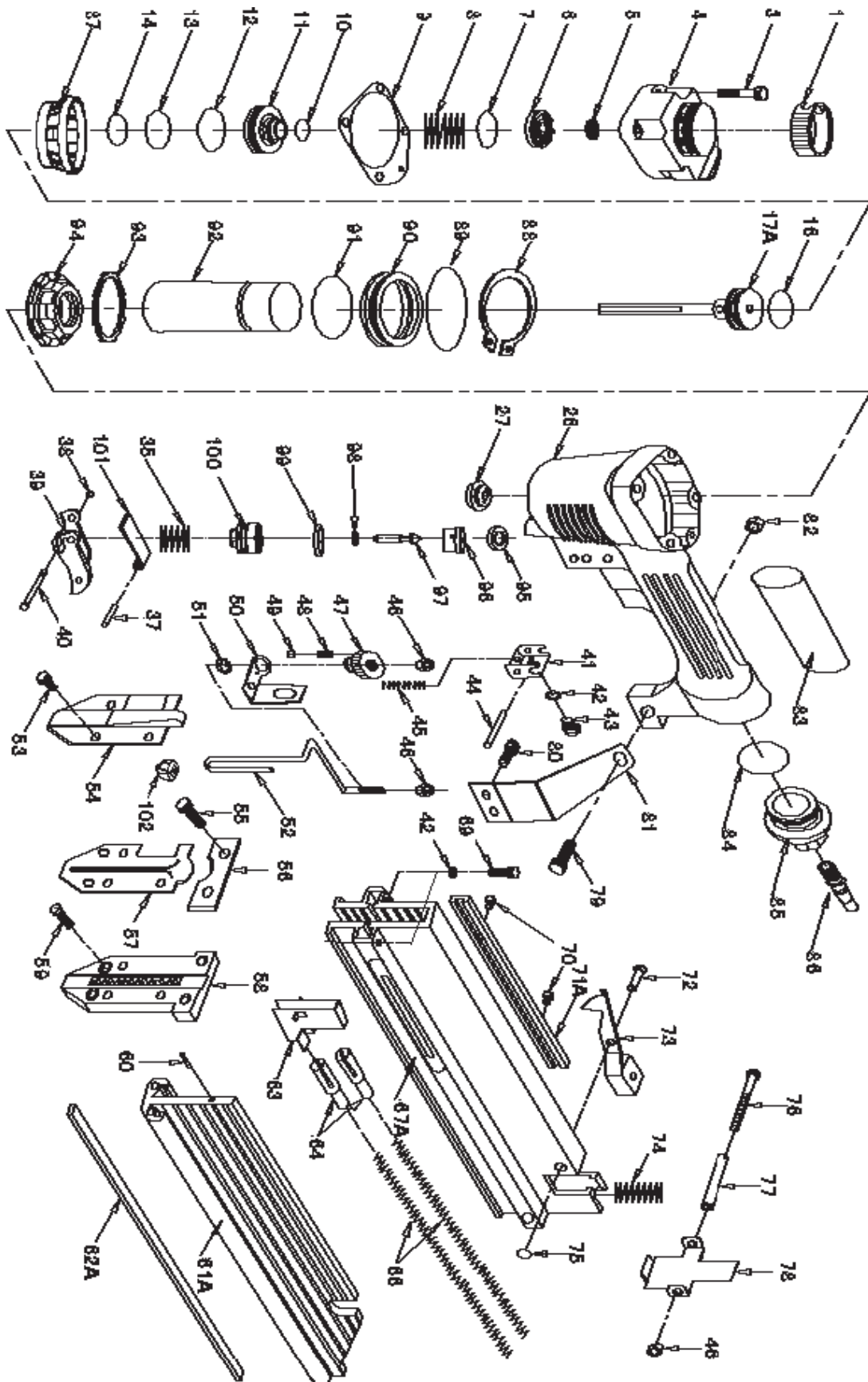
Part	Description	Part	Description	Part	Description
1	Exhaust Deflector	46	Screw Nut	76	Hex Bolt
		47	Thumb Wheel	77	Cylinder Pin
3	Hex. Bolt	48	Spring	78	Tail Cover
4	Head Cap	49	Steel Ball	79	Hex. Bolt
5	Seal	50	Stopper	80	Hex. Bolt
6	Internal Lining	51	E-Ring	81	Tail Hanger
7	O-Ring	52	Safety	82	Lock Nut
8	Compression Spring	53	Safety Cover Bolt	83	Hand Grip
9	Gasket	54	Safety Cover	84	O-Ring
10	O-Ring	55	Hex. Bolt	85	End Cap
11	Head Valve Piston	56	Spacer	86	Air Plug
12	O-Ring	57	Driver Cover	87	Collar
13	O-Ring	58	Driver Guide	88	Fixed Ring
14	O-Ring	59	Hex. Bolt	89	O-Ring
		60	Pin	90	Lining Ring
16	O-Ring	61A	Magazine B	91	O-Ring
17A	Piston & Driver	62A	Steel Bar	92	Cylinder
26	Body	63	Pusher Unit	93	Lining Ring
27	Nozzle	64	Spring Holder	94	Bumper
35	Compression Spring	66	Pusher Spring	95	Seal
37	Spring Pin	67A	Magazine A	96	Trigger Valve Upper
38	E-Ring	68	Stopper	97	Trigger Plunger
39	Trigger	69	Hex. Bolt	98	O-Ring
40	Retainer Pin	70	Hex. Bolt	99	O-Ring
41	Safety Guide	71A	Nail Positioner	100	Trigger Valve Lower
42	Spring Washer	72	Retaining Pin	101	Trigger Plate
43	Hex Bolt	73	Latch	102	Non-mar Tip
44	Spring Pin	74	Spring		
45	Spring	75	O-Ring		

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

ASSEMBLY DIAGRAM



90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

3491 Mission Oaks Blvd. • PO Box 6009 • Camarillo, CA 93011 • (800) 444-3353